MAR 06 2001

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Article Number: 7000 0520 0023 6937 5605

Mr. Geoff Jones Corporate Project Manager Safety-Kleen Corporation P.O. Box 11393 Columbia, South Carolina 29211

Dear Mr. Jones:

RE: Safety-Kleen-Wichita

EPA ID# KSD007246846

As we discussed in our February first meeting, I asked the Regions Data Integration and Support Services Branch to review the QAPP in your Phase I Investigation Workplan. They reviewed the subject document, dated October 14, 1999, for compliance with the *EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations*, EPA QA/R-5, November 1999 (R5). The subject document references an Interim Final RCRA Facility Investigation Guidance which in turn references the original QA requirements document: Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, EPA/QAMS-005/80, December 1980 (QAMS)

Because the work has already begun, EPA is providing comments relative to the potential vulnerabilities of the data collected under this document. Comments are structured with the reference to the subject document, to R5, and to QAMS, followed by the issue or concern. By updating your QAPP, questions about data validity for future work will be minimized.

Comments

1. Table 5: Soil samples according to the SW-846 Methods, Chapter 3, Methods 6000-7000 do not require acidification as a preservation. However, water samples for manganese do require acidification. The reason for acidifying the soil samples but not the water samples should be clarified.

ARTD/RCAP:BLOWE:LH:X7658:3-5-01:qapp comment letter RCAP LOWE



R00179792

RCRA RECORDS CENTER

2 2. Section 1, page 2 (R5-B9): This section references historical data. The QAPP should explain how this data will be used for decisions within the RFI. The historical data in Appendix E do not appear to have sufficient information to evaluate the quality of the results for the project. Specifically: A. Were the methods used for the analyses during the 1986-1990 period the same as the analyses during the 1994-1997 period? B. What were the method detection limits (MDLs) for each analysis? C. What were the surrogate recoveries for the monitoring wells, and the data collected prior to 1994? What were the acceptance criteria for the data presented in the appendix? D. E. Why were analyte data not consistently collected for each location? F. Will the data be comparable to the current activities? If not, then what is the impact upon the project? 3. Section 3.5.3, page 11: In the second paragraph the plan describes water levels being less than 10 feet, while in the fourth paragraph Safety-Kleen predicts water levels from 12-14 feet. This discrepancy should be corrected. Section 6.2, page 30: This section states "...soil impacts will be compared to levels that 4. are protective of groundwater based on USEPA and/or KDHE guidelines." Provide a table Which has the soil to groundwater screening limits. Make sure that the analytical MDL's are below the groundwater protection limits. 5. Section 6.3, page 30: The second bullet discussed coding outlier data. Table 4 lists the samples, most of which are biased. Define a "statistical outlier" with biased data. EPA OA/G-9, the guidance on data quality assessment indicates that elimination of outliers from biased data severely skews the results. Section 7.1.7, page 36: This section describes only one field instrument, the PID for VOC 6. determination. There is no SOP for this instrument. Additionally, other field tests are planned which are not described in this section, such as meters for temperature, pH, conductivity, and dissolved oxygen. Add a SOP for PID screening as well as discussion of the other field testing methods. 7. Section 7.1.8, page 37: This section states that "duplicate samples are primarily for inorganic analysis." This statement appears to be inconsistent with guidance documents. Duplicate samples are for all analyses when determining the problem for precision is matrix related. Explain/justify this apparent discrepancy.

3 8. Section 7.2.1, page 38: There is a good description of the types of QC samples for the analytical methods. However, the plan should include the frequency at which these QC samples will be analyzed. 9. Appendix G: This section appears to be missing SOPs for the collection of soil samples from the borehole locations and there is no SOP for the field PID. The remaining comments are deficiencies based on the OAMS document 10. Section 1 (R5-A1, QAMS-1.0): There is no signature of the project manager, and there is no indication that a quality assurance officer/manager exists. Signatures show acceptance of the document by all participants. If there are any legal requirements relative to EPA, EPA should also have signatures for the EPA Project Manager and the Regional Quality Assurance Manager. Section 4 (R5-A4, QAMS-3.0): Key individuals are identified. However, no distribution 11. list exists for those people who would receive the document and subsequent updates. There is no quality assurance officer/manager; there is no evidence of an independent

Section 3 (R5-A6, QAMS-3.0): Applicable regulations are alluded to for the RCRA Facility Investigation, the USEPA Risk-based Levels, and the KDHE Risk-based levels. There are no details which allow the tracking of the specific portions of these regulations.

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Safety-Kleen should revise the workplan and QAPP to address these comments so that this document can continue to serve as the guideline for any future sampling and analysis. If you have any questions, please call me at extension (913) 551-7547.

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William F. Lowe, RPG RCRA Corrective Action and Permits Branch Air, RCRA, and Toxics Division

cc: Ms. Kay Tauscher, Safety-Kleen Inc. Christine R. Jump, Kansas Department of Health and Environment



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RCRA Corrective Action and Permits Branch

Air, RCRA, and Toxics Division

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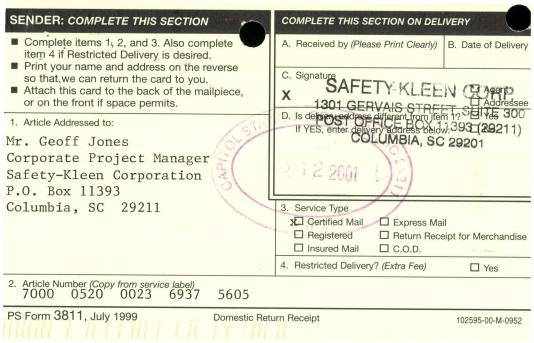
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